

=> d his

## STN Search History

(FILE 'HOME' ENTERED AT 13:49:55 ON 18 OCT 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 13:50:17 ON 18 OCT 2002

SEA IGIF OR ((INTERFERON-GAMA OR INTERFERON(A)GAMMA OR IF-GAMMA

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534 FILE ADISALERTS  
156 FILE ADISINSIGHT  
214 FILE ADISNEWS  
152 FILE AGRICOLA  
6 FILE ANABSTR  
4 FILE AQUASCI  
38 FILE BIOBUSINESS  
41 FILE BIOCOMMERCE  
12749 FILE BIOSIS  
457 FILE BIOTECHABS  
457 FILE BIOTECHDS  
7409 FILE BIOTECHNO  
1272 FILE CABA  
11221 FILE CANCERLIT  
10572 FILE CAPLUS  
22 FILE CEABA-VTB  
13 FILE CEN  
9 FILE CIN  
169 FILE CONFSCI  
3 FILE CROPU  
15 FILE DDFB  
1228 FILE DDFU  
1631 FILE DGENE  
15 FILE DRUGB  
30 FILE DRUGNL  
1493 FILE DRUGU  
32 FILE DRUGUPDATES  
180 FILE EMBAL  
11880 FILE EMBASE  
6327 FILE ESBIODASE  
585\* FILE FEDRIP  
13 FILE FROSTI  
15 FILE FSTA  
946 FILE GENBANK  
8 FILE HEALSAFE  
125 FILE IFIPAT  
480 FILE JICST-EPLUS  
50 FILE KOSMET  
5863 FILE LIFESCI  
12449 FILE MEDLINE  
38 FILE NIOSHTIC  
38 FILE NTIS  
1 FILE OCEAN  
4541 FILE PASCAL  
7 FILE PHAR  
7 FILE PHARMAML  
1 FILE PHIC  
48 FILE PHIN  
787 FILE PROMT

10509 FILE SCISEARCH  
3778 FILE TOXCENTER  
9066 FILE USPATFULL  
86 FILE USPAT2  
108 FILE VETU  
271 FILE WPIDS  
271 FILE WPINDEX

L1 QUE IGIF OR ((INTERFERON-GAMA OR INTERFERON(A) GAMMA OR IF-GAMM

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SEA INF-GAMMA (S) INDUC?

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4 FILE ADISALERTS  
2 FILE ADISINSIGHT  
1 FILE ADISNEWS  
3 FILE AGRICOLA  
1 FILE BIOBUSINESS  
292 FILE BIOSIS  
8 FILE BIOTECHABS  
8 FILE BIOTECHDS  
126 FILE BIOTECHNO  
24 FILE CABA  
226 FILE CANCERLIT  
130 FILE CAPLUS  
2 FILE CONFSCI  
38 FILE DDFU  
87 FILE DRUGU  
6 FILE EMBAL  
252 FILE EMBASE  
136 FILE ESBIODBASE  
17\* FILE FEDRIP  
1 FILE HEALSAFE  
5 FILE IFIPAT  
45 FILE JICST-EPLUS  
1 FILE KOSMET  
104 FILE LIFESCI  
255 FILE MEDLINE  
2 FILE NTIS  
85 FILE PASCAL  
3 FILE PROMT  
208 FILE SCISEARCH  
79 FILE TOXCENTER  
143 FILE USPATFULL  
1 FILE USPAT2  
10 FILE WPIDS  
10 FILE WPINDEX

L2 QUE INF-GAMMA (S) INDUC?

-----  
SEA L1 OR L2

-----  
534 FILE ADISALERTS  
156 FILE ADISINSIGHT  
214 FILE ADISNEWS  
153 FILE AGRICOLA  
6 FILE ANABSTR  
4 FILE AQUASCI  
39 FILE BIOBUSINESS  
41 FILE BIOCOMMERCE  
12902 FILE BIOSIS  
462 FILE BIOTECHABS  
462 FILE BIOTECHDS  
7477 FILE BIOTECHNO

1285 FILE CABA  
 11344 FILE CANCERLIT  
 10625 FILE CAPLUS  
 22 FILE CEABA-VTB  
 13 FILE CEN  
 9 FILE CIN  
 171 FILE CONFSCI  
 3 FILE CROPU  
 15 FILE DDFB  
 1259 FILE DDFU  
 1631 FILE DGENE  
 15 FILE DRUGB  
 30 FILE DRUGNL  
 1564 FILE DRUGU  
 32 FILE DRUGUPDATES  
 183 FILE EMBAL  
 12009 FILE EMBASE  
 6396 FILE ESBIOBASE  
 597\* FILE FEDRIP  
 13 FILE FROSTI  
 15 FILE FSTA  
 946 FILE GENBANK  
 8 FILE HEALSAFE  
 130 FILE IFIPAT  
 515 FILE JICST-EPLUS  
 50 FILE KOSMET  
 5931 FILE LIFESCI  
 12590 FILE MEDLINE  
 38 FILE NIOSHTIC  
 39 FILE NTIS  
 1 FILE OCEAN  
 4584 FILE PASCAL  
 7 FILE PHAR  
 7 FILE PHARMAML  
 1 FILE PHIC  
 48 FILE PHIN  
 787 FILE PROMT  
 10621 FILE SCISEARCH  
 3830 FILE TOXCENTER  
 9066 FILE USPATFULL  
 86 FILE USPAT2  
 108 FILE VETU  
 278 FILE WPIDS  
 278 FILE WPINDEX

L3 QUE L1 OR L2

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FILE 'MEDLINE, CANCERLIT, CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT  
 13:58:56 ON 18 OCT 2002

L4 70091 S L3  
 L5 59976 S L4 NOT PY>2000  
 L6 310 S L4 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)  
 L7 119 DUP REM L6 (191 DUPLICATES REMOVED)  
 L8 89 S L7 NOT PY>2000  
 L9 7064 S (IL-18 OR INTERLEUKIN-18 OR INTERLEUKIN(A)18 OR IL18)  
 L10 37 S L9 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)  
 L11 18 DUP REM L10 (19 DUPLICATES REMOVED)  
 L12 16719 S GAMMA(3N) (INF OR INTERFERON) (3N) INDUC### OR GAMMA(3N) (INF OR  
 L13 133 S L12 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)  
 L14 49 DUP REM L13 (84 DUPLICATES REMOVED)  
 L15 16 S L14 NOT (L11 OR L8)

FILE 'HOME' ENTERED AT 13:49:55 ON 18 OCT 2002

=> index bioscience

56 FILES HAVE ONE OR MORE ANSWERS, 64 FILES SEARCHED IN STNINDEX

L1 QUE IGIF OR ((INTERFERON-GAMA OR INTERFERON(A) GAMMA OR IF-GAMMA) (S) INDUC?)

34 FILES HAVE ONE OR MORE ANSWERS, 64 FILES SEARCHED IN STNINDEX

L2 QUE INF-GAMMA (S) INDUC?

56 FILES HAVE ONE OR MORE ANSWERS, 64 FILES SEARCHED IN STNINDEX

L3 QUE L1 OR L2

=> file f2, f4, f5, f1, f3, f6

L4 70091 L3

L5 59976 L4 NOT PY>2000

L6 310 L4 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)

L7 119 DUP REM L6 (191 DUPLICATES REMOVED)

L8 89 L7 NOT PY>2000

L9 7064 (IL-18 OR INTERLEUKIN-18 OR INTERLEUKIN(A) 18 OR IL18)

L10 37 L9 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)

L11 18 DUP REM L10 (19 DUPLICATES REMOVED)

L12 16719 GAMMA(3N)(INF OR INTERFERON)(3N) INDUC### OR GAMMA(3N)(INF OR INTERFERON)(3N) INDUC###(S) FACTOR

L13 133 L12 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)

L14 49 DUP REM L13 (84 DUPLICATES REMOVED)

L15 16 L14 NOT (L11 OR L8)

L8 ANSWER 81 OF 89 SCISEARCH COPYRIGHT 2002 ISI (R)  
 AN 1999:438151 SCISEARCH  
 GA The Genuine Article (R) Number: 202VH  
 TI Quantification of human interleukin 18 mRNA expression by competitive reverse transcriptase polymerase chain reaction  
 AU Klein S A (Reprint); Ottmann O G; Ballas K; Dobmeyer T S; Pape M; Weidmann E; Hoelzer D; Kalina U  
 CS UNIV KLIN FRANKFURT, MED KLIN 3, THEODOR STERN KAI 7, D-60590 FRANKFURT, GERMANY (Reprint); UNIV FRANKFURT, MED KLIN 3, D-6000 FRANKFURT, GERMANY  
 CYA GERMANY  
 SO CYTOKINE, (JUN 1999) Vol. 11, No. 6, pp. 451-458.  
 Publisher: W B SAUNDERS CO, INDEPENDENCE SQUARE WEST CURTIS CENTER, STE 300, PHILADELPHIA, PA 19106-3399.  
 ISSN: 1043-4666.  
 DT Article; Journal  
 FS LIFE  
 LA English  
 REC Reference Count: 16  
 \*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*  
 AB Interleukin 18 (IL-18) is a recently identified cytokine, originally called **interferon gamma inducing factor**, due to its capacity to **induce interferon gamma** production in **Thr** type cells. IL-18 is expressed by a wide variety of cell types including mononuclear phagocytes, osteoblasts, keratinocytes and adrenal cortex cells. To quantify human IL-18 mRNA expression in small-scale cell samples the authors developed a competitive reverse transcriptase polymerase chain reaction using a competitive template as an internal standard. This assay was demonstrated as a valid, sensitive and precise tool to quantify human IL-18 mRNA expression. IL-18 mRNA expression of primary peripheral blood monocytes, CD4(+) T cells, CD8(+) T cells, B cells and NK cells was assessed by competitive RT-PCR. Basal IL-18 expression could be detected in all types of peripheral blood mononuclear cells (PBMC). The kinetics of IL-18 mRNA expression in PBMC from healthy donors was defined in vitro after monocyte-specific (lipopolysaccharide LPS), T-cell-specific (anti-CD3) and polyclonal-unspecific stimulation (phytohaemagglutinin PHA), Only LPS led to a strong increase of IL-18 mRNA expression peaking after 2 h, These results indicate that IL-18 is expressed constitutionally by all major PBMC subtypes. However, only monocyte specific stimulation resulted in a significant **induction** of IL-18 mRNA expression suggesting activated monocytes e.g. in inflammation as the main source of IL-18 expression. (C) 1999 Academic Press.

=> d 111 12 bib,abs

L11 ANSWER 12 OF 18 MEDLINE DUPLICATE 7  
AN 2000405301 MEDLINE  
DN 20363814 PubMed ID: 10903731  
TI **IL-18** activates STAT3 in the natural killer cell line  
92, augments cytotoxic activity, and mediates IFN-gamma production by the  
stress kinase p38 and by the extracellular regulated kinases p44erk-1 and  
p42erk-21.  
AU Kalina U; Kauschat D; Koyama N; Nuernberger H; Ballas K; Koschmieder S;  
Bug G; Hofmann W K; Hoelzer D; Ottmann O G  
CS Department of Hematology, Johann Wolfgang Goethe University Hospital,  
Frankfurt/Main, Germany.. Kalina@em.uni-frankfurt.de  
SO JOURNAL OF IMMUNOLOGY, (2000 Aug 1) 165 (3) 1307-13.  
Journal code: 2985117R. ISSN: 0022-1767.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200008  
ED Entered STN: 20000901  
Last Updated on STN: 20000901  
Entered Medline: 20000822  
AB **IL-18** is a regulator of NK cell function which  
utilizes the serine-**threonine** IL-1R-associated kinase signal  
transduction pathway and may activate additional not yet characterized  
signaling pathways. Here we evaluated **IL-18**-mediated  
signal transduction using the human NK cell line NK92 as a model. NK92  
cells were shown by RT-PCR to express all three **IL-18**  
receptor chains (IL-18R, accessory protein-like chain, **IL-**  
**18**-binding protein). Stimulation by **IL-18**  
strongly enhanced tyrosine phosphorylation of STAT3 and of the  
mitogen-activated protein kinases (MAPK) p44erk-1 and p42erk-2. In  
contrast, STAT5 was not activated. The cytolytic activity of NK92 against  
K562 target cells, which was augmented in a dose-dependent manner by  
**IL-18** in the presence of trace amounts of IL-2, was  
suppressed by the specific inhibitors of MAPK pathways (PD098059 and  
SB203580). Similarly, the stimulatory effect of **IL-18**  
on IFN-gamma protein production, given in conjunction with IL-2, was  
counteracted by inhibition of MAPK. **IL-18** alone failed  
to stimulate IFN-gamma protein production despite inducing expression of  
IFN-gamma mRNA. IL-2 alone stimulated neither IFN-gamma mRNA expression  
nor IFN-gamma protein production. **IL-18** did not  
stimulate proliferation of NK92 cells, either alone or in combination with  
IL-2 or IL-12. Inhibition of the MAPK pathway did not significantly alter  
the IL-2- and IL-12-induced proliferation of NK92 cells, whereas the Janus  
kinase/STAT pathway inhibitor AG490 strongly suppressed proliferation.  
MAPK activation appears to play a prominent role in **IL-**  
**18** signaling, being involved in transcription and translation of  
**IL-18**-induced IFN-gamma mRNA and **IL-18**  
-induced cytolytic effects. In contrast, proliferation of NK92 cells is  
not affected by MAPK p44erk-1 and p42erk-2.